Index of Claims

| Application/Control No. | App | lication | /Contr | ol No. |
|-------------------------|-----|----------|--------|--------|
|-------------------------|-----|----------|--------|--------|

10/816,346

Examiner

Thomas M. Lithgow

Applicant(s)/Patent under Reexamination

SIMMONS ET AL.

Art Unit

1724

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |  |  |  |  |  |  |  |  |  |
|---|--------------------------------|--|--|--|--|--|--|--|--|--|
| ÷ | Restricted                     |  |  |  |  |  |  |  |  |  |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Clé                    | aim      | n Date   |              |              |          |          |     |          |               |  | Claim Date   |    |          |          |                 |          |          |          |          | Claim Date |              |        |              |  |            |                |          |         |                    |              |                 |                |           |
|------------------------|----------|----------|--------------|--------------|----------|----------|-----|----------|---------------|--|--------------|----|----------|----------|-----------------|----------|----------|----------|----------|------------|--------------|--------|--------------|--|------------|----------------|----------|---------|--------------------|--------------|-----------------|----------------|-----------|
|                        |          | +        | 2            | Т            | $\neg$   |          | Jal | _        | $\overline{}$ | Т  | Т            | 1  |          | Г        |                 |          | $\neg$   | ᅻ        | /ale     | -          | Т            |        | -            | <del>- □</del>                                   |            | $\vdash$       | $\neg$   |         | Tal                | T            |                 |                | -         |
| Final                  | Original |          | ا            | 1            | N 2      | 0        | 9 ( | 6        |               |  |              |    | Final    | Original |                 |          |          |          |          |            |              |        |              | Final  | Original   |                |          |         |                    |              |                 |                |           |
|                        | <u> </u> | 7        | +            | +            | 7        | _        |     | ₩        | ╀             | $\vdash$   | <u> </u>     | -  |          |          |                 | Н        | $\dashv$ | -        | $\dashv$ | $\dashv$   | $\dashv$     | +      | 1            |  | 1          | $\dashv$       | +        | +       | +                  | ┼            | Н               |                |           |
|                        | 1        | 2        | <u>e</u> _   | +            | -        |          |     | -        | ╀             | ┼  | ├            |    |          | 51       |                 | Н        |          | $\dashv$ | $\dashv$ | +          | -            |        | -            |  | 101        |                | +        | +       | +                  | +            | ⊢               |                | $\square$ |
| -                      | 3        | H        | ┿            | +            | -        | _        | -   | -        | ╀             | -  | ┝            | -  |          | 52<br>53 | -               |          |          | $\dashv$ | $\dashv$ | +          | -            |        | -            |  | 102        | $\dashv$       | +        | +       | ╁                  | ╁            | H               | Н              |           |
| -                      | 4        | Н        | +            | +            | -        | _        | —   | ╀        | +             | ┼  |              | -  |          | 54       | ┢               | -        | -        |          | $\dashv$ | -+         | $\dashv$     | +      | ┨.           |  | 103        | $\dashv$       | +        | ╁       | ╁                  | ╁            | ₩               | -              |           |
| $\vdash$               | 5        | Н        | ₩            | +            | +        |          |     | $\vdash$ | -             | +  | $\vdash$     | 1  |          | 55       | $\vdash$        |          | -        | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$     | +      | -            | <del>                                     </del> | 105        | -              |          | +       | +                  | ╁╴           | ┝               | -              |           |
|                        | 6        | H        | ₩            | ╁            | ┰┼       | -        |     | -        | -             | ╁  | -            | 1  | -        | 56       | -               |          | $\dashv$ | $\dashv$ | $\dashv$ | +          | ╅            | +      | 1            |  | 106        | -              | +-       | +-      | ╁                  | ╁            | $\vdash$        |                |           |
| <u> </u>               | 7        | Н        | H            | +            | $\dashv$ |          | _   | $\vdash$ | +-            | ╁  | ├─           | i  | <u> </u> | 57       |                 | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$   | +            | +      | ┪.           |  | 107        | $\dashv$       | +        | +       | ╁╴                 | +-           | Н               | $\dashv$       | -         |
| -                      | 8        | Н        | Н            | †            | +        |          | -   | $\vdash$ | +             | +  | ╁            | 1  | $\vdash$ | 58       |                 |          | $\dashv$ |          | -        | $\dashv$   | $\dashv$     |        | 1            | ·····  | 108        | $\dashv$       | $\dashv$ | +       | ╁                  | +            | Н               | -              |           |
|                        | 9        | H        | 1            | t            | 十        | _        |     | $\vdash$ |               | T  | $\vdash$     | 1  |          | 59       |                 |          | $\neg$   | 7        | 寸        | +          | 十            | $\top$ | 1            |  | 109        |                |          | +       | T                  | +            | Н               | $\neg$         | $\dashv$  |
|                        | 10       | Ħ        | †            | ✝            | _        |          |     |          | <u> </u>      | <u>†                                      </u>   | Г            | 1  |          | 60       | П               | $\Box$   | 一        | ┪        | $\dashv$ | $\top$     | $\top$       | +      | 1.           |  | 110        | T              | 7        | ╈       | †                  | +            | П               |                | $\dashv$  |
|                        | 11       | Ħ        | T            | Ť            | 寸        |          |     | $\vdash$ | $\top$        | Т  |              | 1  |          | 61       | П               | Ħ        | 寸        | 寸        | 1        | 寸          | $\dashv$     | $\top$ |              |  | 111        | $\neg \dagger$ |          | 十       | $\top$             | T            |                 |                | $\neg$    |
|                        | 12       | П        | T            | T            | T        |          |     | t        | T             |  |              | 1  |          | 62       | П               |          |          |          | $\neg$   | 7          | 十            |        | 1            |  | 112        |                | $\neg$   | $\top$  | T                  | T            | П               |                |           |
|                        | 13       | П        | 1            | T            | T        |          |     | $\vdash$ | Τ             |  |              | 1  |          | 63       |                 |          | ヿ        | T        |          | Ť          | ┪            | $\top$ | 1            |  | 113        |                |          | ╅       | $\dagger$          | Т            | П               |                |           |
|                        | 14       | Π        | Τ            | Ť            | T        |          |     | Γ        |               | Т  |              | 1: |          | 64       | П               |          | T        | T        |          |            | T            | $\top$ | 1.           |  | 114        |                | T        | 1       | †                  | 1            | П               | $\Box$         | $\neg$    |
|                        | 15       | П        |              | T            | T        |          |     | Π        |               |  | Г            | 1  |          | 65       | П               |          | $\neg$   | $\neg$   | $\neg$   |            | $\dashv$     | $\top$ | 1            |  | 115        |                | $\top$   | 1       | T                  | T            | П               |                |           |
|                        | 16       | П        | T            | T            |          |          |     |          |               |  |              |    |          | 66       | П               |          | $\neg$   | $\neg$   |          |            | T            | T      | 1            |  | 116        |                | $\top$   | $\top$  | T                  | 1            | П               |                |           |
|                        | 17       | П        | Т            | Τ            |          |          |     |          |               |  |              |    |          | 67       |                 |          |          |          | T        |            | T            |        |              |  | 117        |                |          | T       | Т                  |              | П               |                |           |
|                        | 18       | П        | Τ            | T            |          |          |     |          |               |  |              | 1  |          | 68       |                 |          | $\Box$   |          | T        | T          |              |        | 1 - 1        |  | 118        |                |          | T       | Т                  | Τ            | П               |                |           |
|                        | 19       |          |              |              |          |          |     |          |               |  |              | ŀ  |          | 69       |                 |          |          |          |          |            |              |        | ]            |  | 119        |                |          |         |                    |              |                 |                |           |
|                        | 20       | Ш        |              |              |          |          |     |          |               |  |              |    |          | 70       |                 |          |          |          |          |            |              |        | ] :          |  | 120        |                |          |         | Π                  | $\prod$      |                 |                |           |
|                        | 21       | Ц        |              | $\perp$      |          |          |     |          |               |  |              | 1  |          | 71       |                 |          |          |          |          |            |              |        | ] " [        |  | 121        |                |          |         |                    |              |                 |                |           |
|                        | 22       | Ц        | $\perp$      | $\perp$      |          |          |     |          |               |  |              |    |          | 72       |                 |          |          |          |          |            |              |        |              |  | 122        |                |          |         |                    |              |                 |                |           |
|                        | 23       | Ц        | $\perp$      | $\perp$      |          |          |     |          | ┖             | <u> </u>   |              | ]  |          | 73       | Ш               |          | _        | _        |          | $\perp$    |              | ⊥.     |              |  | 123        |                |          |         | $oldsymbol{\perp}$ |              |                 |                | ╝         |
|                        | 24       | Ц        |              | ┸            | _        |          |     |          | <u> </u>      |  |              |    |          | 74       | Ш               |          |          |          |          | $\perp$    | $\perp$      |        |              |  | 124        |                |          | 1       | L                  |              |                 |                |           |
|                        | 25       | Ц        | $\perp$      | 1            | $\perp$  |          |     |          | <u> </u>      | _  |              |    |          | 75       | Ш               |          | _        | _        |          | $\perp$    | _            |        |              |  | 125        |                |          |         |                    |              |                 |                |           |
|                        | 26       | Ш        | Щ            | ↓            | $\perp$  |          |     |          | L             | _  |              | ļ  |          | 76       | Ш               |          | _        | _        | _        | $\perp$    | $\perp$      |        |              |  | 126        |                | _ _      |         |                    |              |                 |                | _         |
|                        | 27       | Ц        | Щ            | 1            | 4        | _        |     |          | ┖             | ┖  | L.           |    |          | 77       | Ш               |          |          | _        | 4        | 4          |              |        | _            |  | 127        |                |          | $\perp$ | ┸                  | $\perp$      |                 |                |           |
|                        | 28       | Ц        | `            | 1            | _        |          |     | _        | _             | _  | <u> </u>     |    |          | 78       | Щ               |          |          |          | _        |            | _            |        | _            |  | 128        |                |          | _       | ↓_                 | <u> </u>     |                 | _              |           |
|                        | 29       | Ц        | $\downarrow$ | 1            | 4        |          |     |          | _             | ┞  | <u> </u>     |    |          | 79       | Щ               | _        |          | _        | 4        | 4          | 4            | _      | 1            |  | 129        | $\dashv$       | _        | 4       | ļ                  |              | Ш               | _              |           |
|                        | 30       | Н        | 1            | ╀            | _        |          |     | _        | _             | _  | _            |    |          | 80       | Ш               |          | _        | _        | _        | 4          | $\downarrow$ | Щ.     |              |  | 130        | -              | _        | 4_      | ↓                  | ļ            | Ш               | _              | _         |
| $\vdash$               | 31       | Ц        | ╄            | +            | $\dashv$ |          |     | <u> </u> | <u> </u>      | ├_   | <u> </u>     |    |          | 81       | Ш               |          | _        | _        | 4        | 4          |              |        | 1            |  | 131        |                | _        | 1       | _                  | ļ.,          |                 |                | _         |
| <u> </u>               | 32       | H        | $\bot$       | +            | $\dashv$ |          |     | _        |               | ₩  | <u> </u>     |    |          | 82       | $\sqcup$        | _        | _        | _        | $\dashv$ | 4          | +            |        | 1            |  | 132        | $\dashv$       | +        | -       | 1                  |              |                 | _              |           |
| $\vdash$               | 33       | H        | +            | 4            | +        | _        |     | _        | <del> </del>  | -  | -            |    |          | 83       | $\vdash \vdash$ | _        |          | $\dashv$ |          |            | +            | +      | 4            |  | 133        | $\dashv$       | +        | +       | 1                  | ╀            | -               |                |           |
| $\vdash$               | 34       | Н        | +            | +            | +        | _        |     | -        | ├             | ┼—   | $\vdash$     |    | $\vdash$ | 84       | $\vdash$        |          | -        | 4        | $\dashv$ | +          | +            |        |              |  | 134        | -+             | _        | +       | ļ                  |              | $\vdash \vdash$ | _              | $\dashv$  |
| $\vdash$               | 35       | Н        | +-           | ╀            | +        |          |     |          | ┼             | $\vdash$   | <u> </u>     |    |          | 85       | $\vdash$        | $\dashv$ | $\dashv$ | +        | $\dashv$ | +          | +            |        | -            |  | 135        |                | +        | +       | +-                 | ├-           | $\vdash \vdash$ |                |           |
| $\vdash$               | 36<br>37 | Н        | +            | +            | +        | ᅴ        |     | -        | ├             | -  | <u> </u>     |    |          | 86<br>87 | -1              |          | $\dashv$ | $\dashv$ | $\dashv$ | +          | +            |        | -            |  | 136        |                |          | +       | +                  | $\vdash$     | $\vdash$        | -              |           |
| $\vdash$               | 38       | H        | +-           | +            | +        | $\dashv$ |     | $\vdash$ |               | 1  | -            |    |          |          | $\vdash$        |          | .        | $\dashv$ | $\dashv$ | +          | +            | +-     | 1            |  | 137        | -              | +        | +       | +                  | ╀            | ┝╌┤             |                |           |
| <b></b>                | 39       | H        | +            | +            | +        | $\dashv$ |     | -        | -             | +-   | $\vdash$     |    |          | 88<br>89 | $\vdash$        | -        |          | -        | $\dashv$ | +          | +            | +-     | 1            |  | 138<br>139 | $\dashv$       | +        | +       | +                  | ╂            | $\vdash \vdash$ |                | $\dashv$  |
| $\vdash$               | 40       | H        | +            | ╁            | +        | $\dashv$ |     | $\vdash$ | ╁             | $\vdash$   |              |    |          | 90       | $\vdash$        | -        | $\dashv$ | $\dashv$ | $\dashv$ | +          | +            | -      | 1            |  | 140        | -              | $\dashv$ | +-      | ╁                  | +-           | $\vdash$        | $\dashv$       |           |
| $\vdash$               | 41       | Н        | +            | +            | +        | $\dashv$ | -   | $\vdash$ | ╁             | -  | <del> </del> |    |          | 91       | $\vdash$        | -+       |          | +        | -+       | +          | +            | +      | 1            |  | 141        | -+             | +        | +       | +-                 | ┼-           | $\vdash$        |                | $\dashv$  |
| $\vdash$               | 42       | H        | +            | +            | +        | $\dashv$ |     | $\vdash$ | $\vdash$      |  | ├-           |    |          | 92       | $\vdash$        | $\dashv$ |          | -+       | +        | +          | +            | +      | <del> </del> |  | 142        | +              | +        | +       | +                  | $\vdash$     | $\vdash$        | $\dashv$       | $\dashv$  |
| Н                      | 43       | H        | +            | +            | +        |          |     | ┝        | $\vdash$      | +-   |              |    |          | 93       | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +          | +            | _      |              |  | 143        | +              | +        | ╁       | +                  | +            | $\vdash$        | $\dashv$       | $\dashv$  |
| $\vdash \vdash \vdash$ | 44       | H        | +            | +            | +        | $\dashv$ | _   | $\vdash$ | $\vdash$      | -  | $\vdash$     |    | -        | 94       | $\vdash$        | $\dashv$ | $\dashv$ | -+       | $\dashv$ | +          | +            | +      |              |  | 144        | +              | +        | ╁       | +                  | +-           | -               |                | $\dashv$  |
| $\vdash$               | 45       | H        | +            | $^{+}$       | +        | $\dashv$ |     | $\vdash$ | $\vdash$      | <del>                                     </del> | _            |    |          | 95       | $\vdash \vdash$ | +        | $\dashv$ | $\dashv$ | $\dashv$ | +          | +            |        | 1            |  | 145        | $\dashv$       | +        | +       | +                  | +            | ┝┥              | ᅱ              | $\dashv$  |
| $\vdash$               | 46       | +        | +            | t            | ┪        | -        |     |          | I             |  | -            |    |          | 96       | H               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +          | +            | +-     | 1            |  | 146        | $\dashv$       | +        | +       | +                  | 1            | $\vdash \vdash$ | $\dashv$       | ᅱ         |
| $\vdash$               | 47       | 2        | 1            | $^{\dagger}$ | +        | $\dashv$ |     | <u> </u> | <del> </del>  |  |              |    |          | 97       | -               | +        | 一        | $\dashv$ | $\dashv$ | +          | $\dashv$     | +      | 1 1          |  | 147        | 十              | +        | +-      | +                  | ┢            | H               | $\dashv$       | $\dashv$  |
| H                      | 48       |          | $\top$       | †            | +        | +        | _   | <u> </u> | Н             | $\vdash$   |              |    |          | 98       | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +          |              | +      | 1 }          |  | 148        | $\dashv$       | +        | +       | +                  | <del> </del> | $\vdash$        | $\dashv$       | $\dashv$  |
| $\Box$                 | 49       | $\vdash$ | T            | †            | 十        | $\dashv$ |     |          | Т             | П  |              |    |          | 99       |                 | _        | 7        | _        | +        | $\top$     | 十            | 1      | 1            |  | 149        | -+             | +        | +       | t                  | $t^-$        | $\vdash$        | 一              | ᅥ         |
| $\vdash$               | 50       | Ι        | T            | Ť            | 十        | ┪        |     | Г        |               | П  | $\vdash$     |    |          | 100      | $\dashv$        | _        | $\dashv$ | 寸        | $\top$   | $\dashv$   | 十            | $\top$ | 1            |  | 150        | $\dashv$       | 十        | 十       | T                  | T            | $\vdash$        | $\neg \dagger$ | $\dashv$  |
|                        |          |          |              | _            |          | _        |     |          |               |  |              |    |          |          |                 |          |          |          |          |            |              |        |              |  |            |                |          |         |                    |              |                 |                |           |